

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2019

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
All degrees	50,524,000	7,466,000	698,000	3,774,000	409,000	663,000	1,921,000	8,893,000	34,165,000
S&E fields	15,362,000	5,709,000	579,000	2,642,000	374,000	477,000	1,637,000	2,131,000	7,522,000
Biological, agricultural, and environmental life sciences	2,437,000	705,000	488,000	94,000	87,000	17,000	19,000	660,000	1,072,000
Agricultural and food sciences	266,000	59,000	44,000	5,000	7,000	D	1,000	27,000	180,000
Biological sciences	1,867,000	565,000	411,000	75,000	58,000	10,000	10,000	588,000	714,000
Environmental life sciences	303,000	80,000	32,000	14,000	22,000	5,000	7,000	45,000	177,000
Computer and mathematical sciences	2,837,000	1,670,000	4,000	1,584,000	4,000	6,000	71,000	366,000	801,000
Computer and information sciences	2,203,000	1,427,000	3,000	1,363,000	S	4,000	55,000	239,000	537,000
Mathematics and statistics	634,000	243,000	1,000	221,000	S	2,000	16,000	127,000	265,000
Physical and related sciences	889,000	422,000	47,000	79,000	246,000	1,000	49,000	176,000	291,000
Chemistry, except biochemistry	400,000	179,000	35,000	24,000	105,000	D	15,000	100,000	120,000
Earth, atmospheric, and ocean sciences	249,000	108,000	3,000	17,000	77,000	D	10,000	36,000	105,000
Physics and astronomy	220,000	131,000	8,000	38,000	62,000	D	23,000	35,000	54,000
Other physical sciences	20,000	4,000	S	D	S	D	S	5,000	11,000
Social and related sciences	5,474,000	754,000	18,000	258,000	8,000	448,000	22,000	367,000	4,352,000
Economics	856,000	130,000	S	64,000	D	59,000	S	24,000	702,000
Political and related sciences	971,000	107,000	S	48,000	*	51,000	S	52,000	812,000
Psychology	2,221,000	341,000	5,000	73,000	D	257,000	6,000	180,000	1,700,000
Sociology and anthropology	829,000	102,000	5,000	35,000	1,000	60,000	S	57,000	669,000
Other social sciences	598,000	74,000	4,000	39,000	6,000	21,000	4,000	55,000	468,000
Engineering	3,725,000	2,159,000	22,000	628,000	28,000	5,000	1,477,000	562,000	1,004,000
Aerospace, aeronautical, and astronautical engineering	142,000	81,000	D	16,000	S	D	64,000	13,000	48,000
Chemical engineering	246,000	138,000	5,000	21,000	6,000	D	107,000	35,000	72,000
Civil and architectural engineering	544,000	284,000	*	13,000	1,000	D	269,000	89,000	172,000

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		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Electrical and computer engineering	1,289,000	849,000	S	459,000	3,000	1,000	385,000	204,000	236,000
Industrial engineering	214,000	86,000	D	27,000	D	D	59,000	35,000	93,000
Mechanical engineering	739,000	452,000	D	51,000	2,000	D	396,000	99,000	188,000
Other engineering	552,000	269,000	14,000	42,000	14,000	S	197,000	88,000	195,000
S&E-related fields	7,429,000	428,000	77,000	186,000	S	44,000	103,000	5,309,000	1,692,000
Health	5,979,000	164,000	72,000	43,000	S	25,000	10,000	4,731,000	1,084,000
Science and mathematics teacher education	469,000	29,000	2,000	21,000	2,000	S	1,000	239,000	201,000
Technology and technical fields	479,000	186,000	2,000	99,000	*	D	81,000	115,000	179,000
Other S&E-related fields	501,000	49,000	D	22,000	S	14,000	11,000	224,000	228,000
Non-S&E fields	27,734,000	1,330,000	43,000	946,000	18,000	142,000	180,000	1,453,000	24,951,000
Management and administration fields	9,499,000	666,000	15,000	498,000	4,000	23,000	125,000	442,000	8,391,000
Education, except science and math teacher education	5,285,000	76,000	4,000	49,000	S	15,000	7,000	444,000	4,764,000
Social service and related fields	1,413,000	77,000	D	34,000	D	39,000	3,000	53,000	1,283,000
Sales and marketing fields	1,299,000	53,000	D	41,000	D	S	9,000	S	1,213,000
Art and humanities fields	4,487,000	224,000	S	186,000	2,000	S	13,000	237,000	4,026,000
Other non-S&E fields	5,750,000	233,000	19,000	138,000	11,000	42,000	23,000	245,000	5,272,000
Bachelor's	31,373,000	4,176,000	277,000	2,403,000	189,000	147,000	1,158,000	4,794,000	22,403,000
S&E fields	10,731,000	3,251,000	241,000	1,705,000	183,000	104,000	1,018,000	1,504,000	5,976,000
Biological, agricultural, and environmental life sciences	1,688,000	344,000	201,000	65,000	61,000	7,000	10,000	486,000	858,000
Agricultural and food sciences	207,000	31,000	20,000	4,000	4,000	D	*	21,000	155,000
Biological sciences	1,254,000	266,000	160,000	51,000	44,000	4,000	7,000	430,000	557,000
Environmental life sciences	228,000	47,000	20,000	9,000	13,000	S	S	35,000	146,000
Computer and mathematical sciences	1,896,000	1,032,000	S	983,000	S	4,000	41,000	250,000	614,000
Computer and information sciences	1,478,000	915,000	D	882,000	D	S	30,000	156,000	407,000
Mathematics and statistics	418,000	117,000	D	101,000	S	S	11,000	94,000	207,000

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(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Physical and related sciences	520,000	194,000	22,000	43,000	106,000	*	23,000	117,000	209,000
Chemistry, except biochemistry	257,000	91,000	18,000	16,000	50,000	D	7,000	79,000	87,000
Earth, atmospheric, and ocean sciences	163,000	59,000	S	12,000	41,000	D	5,000	19,000	84,000
Physics and astronomy	85,000	40,000	3,000	14,000	13,000	D	10,000	17,000	28,000
Other physical sciences	16,000	S	D	D	S	D	D	S	11,000
Social and related sciences	4,097,000	327,000	10,000	210,000	S	89,000	14,000	269,000	3,501,000
Economics	709,000	79,000	*	57,000	D	19,000	S	20,000	610,000
Political and related sciences	760,000	48,000	D	38,000	D	7,000	D	42,000	671,000
Psychology	1,509,000	116,000	3,000	59,000	D	49,000	5,000	117,000	1,276,000
Sociology and anthropology	711,000	45,000	S	30,000	*	10,000	S	48,000	619,000
Other social sciences	407,000	39,000	S	26,000	S	5,000	S	42,000	326,000
Engineering	2,530,000	1,355,000	8,000	404,000	9,000	4,000	930,000	382,000	793,000
Aerospace, aeronautical, and astronautical engineering	88,000	47,000	D	11,000	D	D	35,000	8,000	34,000
Chemical engineering	186,000	98,000	2,000	15,000	3,000	D	79,000	26,000	61,000
Civil and architectural engineering	397,000	182,000	D	10,000	D	D	172,000	68,000	146,000
Electrical and computer engineering	840,000	523,000	D	299,000	1,000	D	223,000	137,000	179,000
Industrial engineering	141,000	54,000	D	14,000	D	D	40,000	19,000	68,000
Mechanical engineering	563,000	325,000	D	38,000	D	D	283,000	75,000	164,000
Other engineering	316,000	125,000	S	18,000	4,000	D	98,000	50,000	141,000
S&E-related fields	3,771,000	193,000	16,000	88,000	1,000	11,000	77,000	2,535,000	1,043,000
Health	2,844,000	36,000	15,000	15,000	S	S	3,000	2,178,000	630,000
Science and mathematics teacher education	206,000	4,000	D	3,000	D	D	D	105,000	97,000
Technology and technical fields	388,000	132,000	D	60,000	D	D	68,000	97,000	160,000
Other S&E-related fields	332,000	21,000	D	11,000	D	5,000	4,000	155,000	156,000

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(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Non-S&E fields	16,871,000	732,000	20,000	610,000	5,000	33,000	63,000	756,000	15,384,000
Management and administration fields	6,264,000	344,000	S	296,000	1,000	9,000	32,000	237,000	5,683,000
Education, except science and math teacher education	2,063,000	28,000	D	24,000	D	D	2,000	118,000	1,917,000
Social service and related fields	554,000	22,000	D	15,000	D	6,000	D	15,000	517,000
Sales and marketing fields	1,057,000	37,000	D	29,000	D	D	S	S	992,000
Art and humanities fields	3,581,000	189,000	S	159,000	S	S	11,000	185,000	3,208,000
Other non-S&E fields	3,352,000	112,000	9,000	87,000	3,000	1,000	11,000	171,000	3,068,000
Master's	14,158,000	2,286,000	152,000	1,168,000	97,000	249,000	619,000	2,332,000	9,540,000
S&E fields	3,350,000	1,589,000	112,000	771,000	75,000	148,000	483,000	479,000	1,281,000
Biological, agricultural, and environmental life sciences	388,000	132,000	87,000	17,000	19,000	3,000	6,000	105,000	151,000
Agricultural and food sciences	40,000	13,000	11,000	D	S	D	*	4,000	22,000
Biological sciences	280,000	90,000	66,000	12,000	10,000	1,000	2,000	92,000	99,000
Environmental life sciences	68,000	28,000	11,000	5,000	8,000	S	3,000	9,000	30,000
Computer and mathematical sciences	829,000	543,000	3,000	513,000	*	2,000	25,000	111,000	174,000
Computer and information sciences	668,000	463,000	S	437,000	*	S	22,000	82,000	124,000
Mathematics and statistics	161,000	81,000	S	76,000	*	S	3,000	30,000	50,000
Physical and related sciences	170,000	88,000	11,000	17,000	48,000	D	11,000	32,000	51,000
Chemistry, except biochemistry	51,000	26,000	7,000	S	14,000	D	3,000	9,000	16,000
Earth, atmospheric, and ocean sciences	60,000	28,000	S	3,000	19,000	D	5,000	14,000	18,000
Physics and astronomy	56,000	33,000	4,000	11,000	14,000	D	4,000	7,000	17,000
Other physical sciences	3,000	1,000	D	D	D	D	D	S	D
Social and related sciences	1,001,000	194,000	3,000	37,000	3,000	143,000	7,000	76,000	731,000
Economics	106,000	26,000	D	6,000	D	17,000	D	3,000	77,000

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(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Political and related sciences	171,000	34,000	D	8,000	D	21,000	S	8,000	129,000
Psychology	507,000	92,000	D	9,000	D	82,000	D	46,000	369,000
Sociology and anthropology	67,000	19,000	D	3,000	D	14,000	D	7,000	41,000
Other social sciences	150,000	23,000	D	11,000	2,000	9,000	D	12,000	115,000
Engineering	961,000	632,000	7,000	187,000	5,000	*	434,000	155,000	174,000
Aerospace, aeronautical, and astronautical engineering	44,000	27,000	D	4,000	D	D	23,000	3,000	S
Chemical engineering	30,000	17,000	S	2,000	*	D	14,000	7,000	5,000
Civil and architectural engineering	126,000	85,000	D	2,000	S	D	82,000	18,000	23,000
Electrical and computer engineering	381,000	273,000	D	142,000	D	D	131,000	61,000	47,000
Industrial engineering	62,000	26,000	D	8,000	D	D	17,000	14,000	23,000
Mechanical engineering	147,000	104,000	D	10,000	D	D	93,000	22,000	21,000
Other engineering	171,000	101,000	6,000	18,000	3,000	D	75,000	29,000	41,000
S&E-related fields	1,920,000	172,000	22,000	85,000	S	28,000	25,000	1,200,000	548,000
Health	1,420,000	76,000	20,000	21,000	S	18,000	S	983,000	361,000
Science and mathematics teacher education	252,000	21,000	2,000	16,000	2,000	D	S	133,000	98,000
Technology and technical fields	82,000	49,000	D	37,000	D	D	11,000	16,000	17,000
Other S&E-related fields	166,000	27,000	D	11,000	D	9,000	6,000	68,000	71,000
Non-S&E fields	8,888,000	524,000	19,000	312,000	9,000	74,000	111,000	653,000	7,711,000
Management and administration fields	3,178,000	314,000	8,000	198,000	4,000	11,000	93,000	203,000	2,660,000
Education, except science and math teacher education	3,063,000	40,000	2,000	25,000	D	8,000	S	307,000	2,715,000
Social service and related fields	769,000	40,000	D	12,000	D	26,000	2,000	37,000	692,000
Sales and marketing fields	237,000	16,000	D	11,000	D	S	4,000	4,000	217,000
Art and humanities fields	739,000	30,000	D	24,000	1,000	3,000	S	52,000	658,000
Other non-S&E fields	903,000	84,000	7,000	42,000	4,000	24,000	7,000	51,000	768,000
Doctorate	2,090,000	938,000	254,000	189,000	121,000	235,000	139,000	387,000	765,000

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(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
S&E fields	1,239,000	841,000	226,000	165,000	116,000	198,000	136,000	146,000	252,000
Biological, agricultural, and environmental life sciences	360,000	229,000	200,000	12,000	7,000	8,000	3,000	69,000	62,000
Agricultural and food sciences	20,000	15,000	13,000	D	S	D	D	1,000	3,000
Biological sciences	333,000	209,000	185,000	12,000	4,000	6,000	S	66,000	59,000
Environmental life sciences	7,000	5,000	S	D	2,000	S	D	S	S
Computer and mathematical sciences	112,000	94,000	*	88,000	S	D	5,000	5,000	13,000
Computer and information sciences	56,000	50,000	D	45,000	D	D	4,000	2,000	5,000
Mathematics and statistics	56,000	45,000	D	43,000	D	D	D	3,000	8,000
Physical and related sciences	199,000	140,000	14,000	19,000	92,000	D	14,000	28,000	31,000
Chemistry, except biochemistry	92,000	62,000	11,000	5,000	40,000	D	5,000	12,000	18,000
Earth, atmospheric, and ocean sciences	27,000	20,000	2,000	S	17,000	D	*	3,000	4,000
Physics and astronomy	79,000	58,000	2,000	12,000	35,000	D	9,000	11,000	10,000
Other physical sciences	2,000	*	D	D	D	D	D	D	D
Social and related sciences	335,000	207,000	5,000	10,000	S	190,000	D	20,000	108,000
Economics	41,000	25,000	D	1,000	D	24,000	D	*	16,000
Political and related sciences	39,000	25,000	D	S	D	23,000	D	2,000	12,000
Psychology	164,000	106,000	2,000	S	D	100,000	D	15,000	43,000
Sociology and anthropology	50,000	39,000	D	S	D	36,000	D	2,000	10,000
Other social sciences	40,000	12,000	S	S	D	7,000	D	1,000	27,000
Engineering	233,000	171,000	7,000	36,000	14,000	*	113,000	24,000	37,000
Aerospace, aeronautical, and astronautical engineering	9,000	8,000	D	S	D	D	6,000	2,000	D
Chemical engineering	30,000	23,000	2,000	S	3,000	D	14,000	2,000	6,000

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		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Civil and architectural engineering	21,000	16,000	D	S	D	D	15,000	2,000	3,000
Electrical and computer engineering	68,000	53,000	D	18,000	2,000	D	31,000	6,000	9,000
Industrial engineering	10,000	6,000	D	4,000	D	D	2,000	S	2,000
Mechanical engineering	28,000	23,000	D	2,000	D	D	20,000	1,000	4,000
Other engineering	66,000	43,000	4,000	6,000	7,000	D	24,000	10,000	14,000
S&E-related fields	305,000	44,000	25,000	8,000	3,000	6,000	2,000	215,000	46,000
Health	283,000	33,000	24,000	3,000	2,000	4,000	D	212,000	38,000
Science and mathematics teacher education	11,000	5,000	D	2,000	D	D	D	1,000	5,000
Technology and technical fields	9,000	5,000	D	S	D	D	1,000	2,000	S
Other S&E-related fields	3,000	1,000	D	D	D	*	D	D	1,000
Non-S&E fields	546,000	53,000	3,000	15,000	S	30,000	2,000	26,000	468,000
Management and administration fields	58,000	9,000	D	S	D	3,000	D	S	48,000
Education, except science and math teacher education	159,000	8,000	D	S	D	6,000	D	19,000	132,000
Social service and related fields	90,000	15,000	D	S	D	7,000	D	D	75,000
Sales and marketing fields	4,000	D	D	D	D	D	D	D	4,000
Art and humanities fields	167,000	5,000	D	D	D	S	D	1,000	161,000
Other non-S&E fields	67,000	16,000	2,000	D	D	11,000	D	S	47,000
Professional	2,903,000	67,000	14,000	14,000	2,000	32,000	5,000	1,380,000	1,456,000
S&E fields	42,000	28,000	D	D	D	26,000	D	2,000	12,000
S&E-related fields	1,433,000	18,000	13,000	S	D	D	D	1,359,000	56,000
Non-S&E fields	1,428,000	21,000	D	9,000	1,000	6,000	4,000	19,000	1,388,000

* = suppressed when population estimate < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

Note(s):

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, National Survey of College Graduates: 2019.